

## Claims

1. A method of providing information regarding a mobile station adapted for communication via a communication system,  
5 comprising:

receiving an area event notification request at a location service entity provided in association with the communication system, the area event notification request containing information associated with the identity of the mobile station  
10 and an area of interest;

activating monitoring for an event indicative of a change in the presence status of the mobile station relative to said area of interest; and

15 signalling a notification in response to detection of such event.

2. A method as claimed in claim 1, wherein the monitoring is activated at the mobile station.

20 3. A method as claimed in claim 1, wherein the monitoring is based on the identity of at least one cell of the communication system selected based on said information of the area of interest.

25 4. A method as claimed in claim 1, wherein the monitoring is based on at least one location area determined based on said information of the area of interest.

30 5. A method as claimed in claim 1, wherein the monitoring is based on at least one routing area determined based on said information of the area of interest.

6. A method as claimed in claim 1, wherein the monitoring is based on at least one service area determined based on said information of the area of interest.
- 5 7. A method as claimed in claim 1, wherein the area of interest is defined by means of a shape of the area.
8. A method as claimed in claim 1, wherein the request contains further information regarding the event to reported,
- 10 the further information defining whether entering or leaving of the area of interest shall be reported.
9. A method as claimed in claim 1, comprising cancelling the request for area event notifications.
- 15 10. A method according to claim 9 wherein the request is cancelled after the signalling notification step.
11. A method according to claim 1 wherein said signalling notification is responsive to detection of said event over a
- 20 predetermined time period.
12. A method according to claim 1 wherein successive signalling within a predetermined time period is limited.
- 25 13. A method according to claim 12, wherein an LCS client defines the predetermined time period such that successive signalling is limited.
14. A method according to claim 12, wherein a network operator defines the predetermined time period such that successive signalling is limited.
- 30 15. A method according to claim 1 wherein the area of interest is taken into consideration in cell selection.

16. A method according to claim 1 wherein the step of receiving an area event notification request is responsive to a location update.

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17. A method according to claim 1 further comprising the step of confirming the location of the mobile station responsive to the signalling location, to ensure the location corresponds to the area of interest.

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18. An arrangement in a communication system, comprising:  
mobile stations adapted for wireless communication with base stations of the communication system;  
a location service entity adapted for receiving an area event notification request containing information associated with the identity of a target mobile station and an area of interest;

monitoring means for monitoring, in response to receiving said request, for an event indicative of a change in the presence status of the target mobile station relative to said area of interest and for signalling a notification in response to detection of such event.

19. An arrangement as claimed in claim 18, wherein the monitoring means are provided in association with the target mobile station.

20. An arrangement as claimed in claim 18, wherein the monitoring is based on an area identifier associated with the operation of the communication system.

21. An arrangement as claimed in claim 18, wherein the area of interest is defined by means of the shape thereof.

22. An area event notification request for use in a communication system wherein mobile stations adapted for wireless communication with base stations of the communication system, the request being for activating monitoring for an 5 event indicative of a change in the presence status of a target mobile station relative to an area of interest and containing information associated with the identity of the target mobile station and the area of interest.